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The Royal Society of London

PHILOSOPHICAL TRANSACTIONS

Volume 36 1729-1730

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The Royal Society of London

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NEW YORK 1963

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Volume 36 1729-1730

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GIVING SOME

ACCOUNT

OF THE

Present Undertakings, Studies, and Labours

OF THE

INGENIOUS,

IN MANY

Confiderable Parts of the WORLD.

VOL. XXXVI. For the Years 1729, 1730.

LONDON:

Printed for W. INNYS, *Printer* to the *Royal Society*, at the West End of St. *Paul's*. 1731.

Sir HANS SLOANE, Bart.
PRESIDENT,

AND TO THE

COUNCIL and FELLOWS

OF THE

ROYAL SOCIETY

Of L O N D O N, for

Improving Natural Knowledge,

This Thirty-fixth Volume of

Philosophical Transactions is humbly Dedicated

BY

Their most Devoted,

And most Obliged Servant,

CROMWELL MORTIMER, R. S. Secr.

FOR THE

Months of January and February 1729.

- I. A Catalogue of the fifty Plants from Chelsea-Garden, presented to the Royal Society, by the Company of Apothecaries, for the Year 1727, pursuant to the Direction of Sir Hans Sloane, Bart. Med. Reg. Pras. Col. R. Med. & Soc. Reg. by Mr. Isaac Rand Apothecary, F. R. S.
- II. An Account of the first Decade of a Book, Intituled, Johannis Martyn Historia Plantarum rariorum. Printed at London; by Richard Reily, 1728. by the same.
- III. An Attempt to solve the Phænomenon of the Rise of Vapours, Formation of Clouds and Descent of Rain. In a Letter from Dr. J.T. Desaguliers, L. L. D. F. R. S. to Dr. Rutty, R. S. Secr.

- IV. An Account of some Observations relating to Natural History, made in a Journey to the Peak in Derbyshire, by Mr. J. Martyn, F. R. S.
- V. The Difference in Time of the Meridians of diverse Places computed from Observations of the Eclipses of Jupiter's Satellites, by the Reverend Mr. Derham Canon of Windsor, and F. R. S.
- VI. Extract of a Letter to the Publisher from Mons. De Lisle, Astronomer Royal at Petersburgh, containing his Observations of the Eclipses of Jupiter's Satellites, from July 10th, 1726, to April 12th, 1728, taken at that Place.

FOR THE

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- I. QUERIES, concerning the Cause of Cohesion of the Parts of Matter, proposed in a Letter to Dr. Desaguliers, F. R. S. By Fr. Triewald, Director of Mechanicks in the Kingdom of Sweden.
- II. A Letter to Dr. Rutty, R. S. Secr. giving a farther Account of the Nature and Virtues of the Holt-Waters, from the Reverend Mr. J. Lewis, Vicar of the Place.
- III. A farther Account of a new Machine, called Sl the Marine Surveyor, designed for the Mensuration of the Way of a Ship at Sea, more correstly

rectly than by the Log, at present in Use, or any other Method hitherto invented for that Purpose. By Mr. Henry de Saumarez, of the Island of Guernsey, Part of his Majesty's antient Dutchy of Normandy.

IV. A second Letter from Mr. Colin Mc Laurin, Professor of Mathematicks in the University of Edinburgh and F. R. S. to Martin Folkes, Esq; concerning the Roots of Equations, with the Demonstration of other Rules in Algebra; being the Continuation of the Letter published in the Philosophical Transactions, N° 394.

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- II. The Bills of Mortality in several Parts of Europe, for the Years 1724 and 1725. Extracted from the Acta Breslaviensia, by the Same.

- in Colman, of Boston in New England, to the late Bishop of Peterborough; giving an Account of the late Earthquake which happened there. Communicated by Dr. Jurin. R. S. S. &c.
- IV. A Proposition on the Balance, not taken Notice of by Mechanical Writers, explain'd and confirm'd by an Experiment before the Royal Society, by J. T. DESAGULIERS, L.L.D. F. R. S.

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- II. A remarkable Conformation of the Urinary Parts, communicated in a Letter to the Same, by Mr. John Budgen.
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- IV. De Frigidæ in Febribus Usu. Auctore Cl. Nicolao Cyrillo Prim. Med, Prof. Neapol. & R.S. S.
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- VII. Observations on a Treatise wrote by Mons. Helvetius of Paris, designed to prove that the Lungs do not divide and exspand the Blood, but that on the contrary, they cool and condense it. By F. Nicholls, M. B. Præl. Anat. Oxon & F. R. S.
- VIII. Observationes diversa Lunaris Deliquii die 2 Februarii, A. D. 1728-9.
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- II. A brief Account of Some of the Effects and Properties of Damps, in a Letter to William Rutty, M. D. R. S. Secr. from Mr. Isaac Greenwood, Professor of Mathematicks at Cambridge, New England.

- III. A Letter from the King's Officers at Sheerness and Chatham, to the Honourable the Commissioners of the Navy, giving an Account of what they met with in opening an antient Well near Queenborough in Kent, communicated by Mr. Peter Collison, F. R. S. on January 8, 1729.
- IV. Some Observations on the Crane, with Improvements on that Machine, by J. T. Desaguliers, F. R. S. Shewn the Society in Models, but here exemplified by Figures.
- V. Of the Meteor called the Ignis Fatuus, from Observations made in England, by the Reverend Mr. W. Derham, F. R. S. and others in Italy, communicated by Sir Tho. Dercham, Bart. F. R. S.
- VI. Dua Observationes Eclipsis Luna Totalis Nocte sequente Diem 28 Julij 1729. S. V. Communicante Cl. Thomâ Dereham, Bart. & R. S. S.

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- III. A farther Examination of the Machine said to be without Friction. By the same.
- IV. DE EQVVLEO: Auttore Joanne Wardo, Rhet. Prof. Gresh. et R. S. S.
- V. An Account of a Treatise entituled, Calculations and Tables relating to the attractive Virtue of Loadstones, &c. Printed Anno 1729.
- VI. An Account of a Book entituled, Jo. Frider. Weidleri Observationes Meteorologicæ & Astronomicæ, Annorum 1728 & 1729, &c. Wittembergæ, Anno 1729.
- VII. Occultatio Veneris à Luna subeunte Berolini visa die 19 Septembris, 1729, N. S. p.mer. à D. Kirchio. Ex Diario Meteorologico (M.S.) J. Fred. Weidleri, L. L. D. & Math. Prof. Prim. Wittembergæ.

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- III. The natural History of Cochineal; being an Account of a Book entituled, Histoire naturelle de la Cochinelle justifiée par des Documens authentiques Amsterdam, 1729. By W. Rutty, M. D. R. S. Secr.

IV. An Anatomical Description of Worms, found in the Kidneys of Wolves, in a Letter from Mr. James Theodorus Klein, Secretary of the City of Dantzick, F. R.S. to Sir Hans Sloane, Bart. &c.

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VI. A new Kind of Hydrometer made by Mr. Clarke, and communicated to the Society by

J. T. Desaguliers, L. L. D. F. R. S.

VII. An Account of an Aurora Borealis attended with unufual Appearances, in a Letter from the Learned Mr. G. Cramer, Prof. Math. Genev. to James Jurin, M. D. and F. R. S.

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IX. An Account of the Hermaphrodite Lobster presented to the Royal Society on Thursday May the 7th, by Mr. Fisher of Newgate-Market, examined and dissected, pursuant to an Order of the Society. By F. Nicholls. M. D. Præl. Anat. Oxon. F. R. S.

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Paul's Church-Yard.

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- III. Observatio Lunaris Eclipseos, Ulissipone habita die 2 Februarii, An. 1730, N. S. in Collegio Divi Antonii magni à Rev. P. Joanne Baptista Carbone, Soc. Jes. Ex ejustem Cl. Viri Epistola ad Jacobum de Castro Sarmento, M. D. Coll. Med. Lond. Lic. & R. S. S.

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- III. Typus Eclipseos Solaris observatæ Julii 15, S. N. 4, S. V. Anno 1730. Witebergæ Saxonum, à Joh. Frider. Weidler, J. U.D. Mathem. Prof. Ordin. Reg. Soc. Scientiar. Pruss. Sodali.
- IV. Observatio ejusdem Desectûs Solis habita Patavii, ab J. Poleno.
- V. An Explanation of the new Chronological Table of the CHINESE HISTORY, translated into Latin from the Original Chinese, by Father Johannes Franciscus Foucquet, Soc. Jes. Bishop of Eleutheropolis, and published at Rome in the Year 1730. Collected from two Accounts thereof, written in French, one sent from Rome by Sir Tho. Dereham, Bart to the Royal Society, the other sent from Father Foucquet to Father Eustache Guillemeau, a Barnabite at Paris, and by him transmitted to Sir Hans Sloane, Bart. Pr. R. S.
- VI. An Account of Mr. Mark Catesby's Essay towards the Natural History of Carolina and the Bahama Islands. with some Extracts out of the first three Sets. By Dr. Mortimer, R.S. Secr.

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- II. An Extract of a Letter from Mr. William Stevenson to Benj. Hoadly, M. D. F. R. S. Containing an Account of an Observation of an Eclipse of the Moon, on July 29, 1729, made in Barbados by Mr. Stevenson's Brother.
- III. The Anatomical Preparation of Vegetables, by Albertus Seba, F. R. S. Communicated to the Royal Society by Sir Hans Sloane, Bart. Pr. R. S. and Col. Med. Lond. Translated from the German, by Mr. Zolman, F. R. S.

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- IV. An Account of what happened from Thunder in Carmarthenshire; partly had from the Woman's Mouth that suffered by it, partly from what was observed by others, communicated to the Royal Society, by John Eames, F. R. S. as he received it in a Letter from Mr. Evan Davies.
- V. The Postscript of a Letter from George Martin, M. D. to William Græme, M.D. F. R. S. giving an Account of the Operation of Bronchotome, as it was performed at St. Andrews.
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- VII. Nova Literaria Physico-Medica curiosa; containing a Description of the Cereus which flowered at Norimberg in the Year 1730. Communicated by Jo. Georg. Steigertahl Arch. Reg. Hanov. Prof. Helm. Soc. Honorar. Coll. Med. Lond. & R. S. S. to Sir Hans Sloane Bart. Pr. R. S. & Coll. Med. Lond. Translated from the Latin by T. Stack, M. D.